

Name \_\_\_\_\_

Date \_\_\_\_\_

## 201 Chapter 1 Review

Find the **perimeter** of  $\triangle ABC$ . Round answers to the nearest tenth.

1.  $A(0,6)$ ,  $B(-6,-2)$ ,  $C(8,-4)$

2.  $A(1,3)$ ,  $B(6,-2)$ ,  $C(1,-2)$

3. M is the midpoint of  $\overline{LN}$ . Find the missing coordinates.

a.  $L(5, -2)$   $M(x, y)$   $N(-3, 8)$

b.  $L(8, -1)$   $M(6, 0)$   $N(x, y)$

c.  $L(x, y)$   $M(\frac{1}{2}, -4)$   $N(3, 2)$



4. Solve for x.

a.  $AB = 3x$ ,  $BC = 8x + 2$ ,  $AC = 24$

b.  $AB = 2x - 5$ ,  $BC = 8 - x$ ,  $AC = 6$

Use the figure to the right to answer the following questions.

 $\overline{AC} \perp \overline{DH}$ 

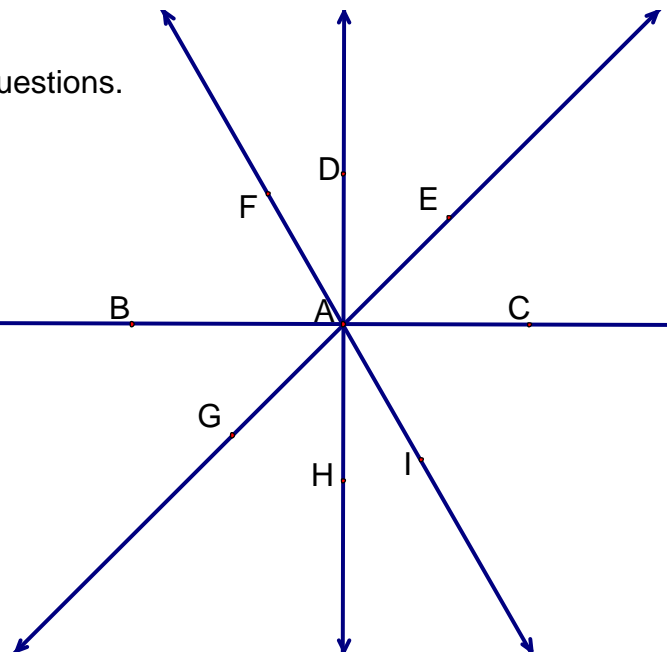
5. \_\_\_\_\_ Name 2 right angles

6. \_\_\_\_\_ Name 2 vertical angles

7. \_\_\_\_\_ Name 2 adjacent angles

8. \_\_\_\_\_ Name a linear pair

9. \_\_\_\_\_ Name 2 acute angles



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10. \_\_\_\_\_ Name 2 obtuse angles

11. \_\_\_\_\_ Name 2 complementary angles

12. \_\_\_\_\_ Name 2 supplementary angles

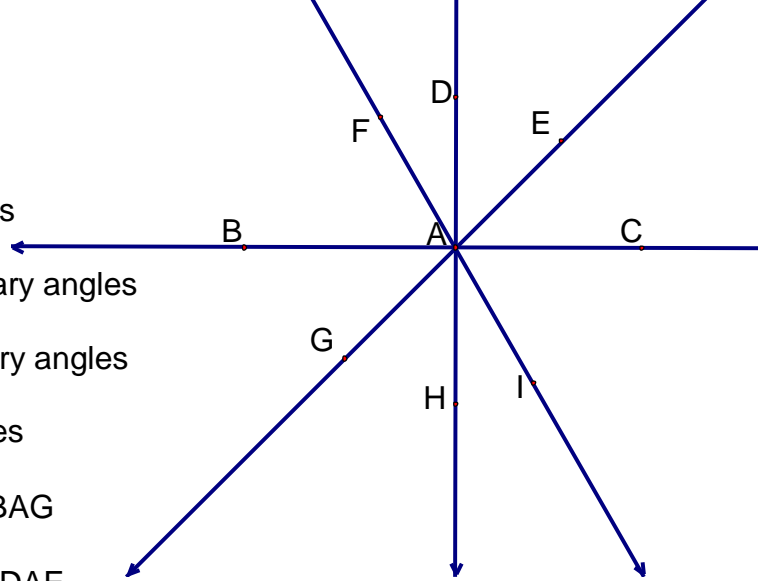
13. \_\_\_\_\_ Name 2 straight angles

14. \_\_\_\_\_ Name the sides of  $\angle BAG$

15. \_\_\_\_\_ Name the vertex of  $\angle DAE$

16. \_\_\_\_\_ If  $\overrightarrow{AE}$  bisects  $\angle DAC$ , what conclusion can you make?

17. \_\_\_\_\_ Give another name for  $\angle GAH$



Use the figure to the right to answer the next set of questions.

18. \_\_\_\_\_ Name 3 planes

19. \_\_\_\_\_ Name 3 lines

20. \_\_\_\_\_ Name 3 coplanar points

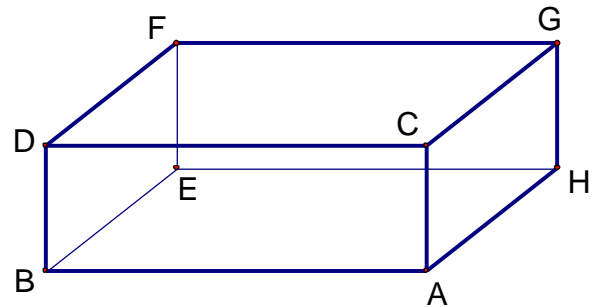
21. \_\_\_\_\_ Name 4 coplanar points

22. \_\_\_\_\_ Name 4 non-coplanar points

23. \_\_\_\_\_ Can you name 3 non-coplanar points?

24. \_\_\_\_\_ Name 2 collinear points

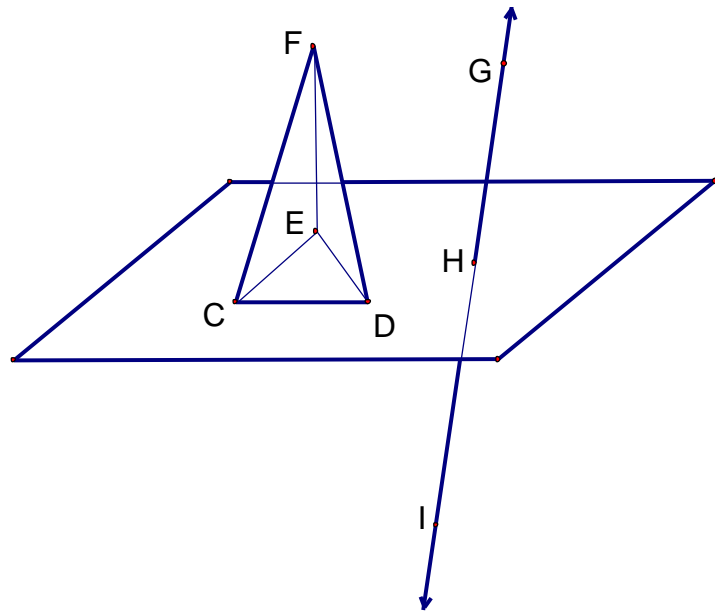
25. \_\_\_\_\_ Can you name 2 non-collinear points?



Use the figure to the right for the next set of questions.

26. \_\_\_\_\_ How many planes do you see?

27. \_\_\_\_\_ Name them



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Answer True or False for #s 28-31.

28. \_\_\_\_\_  $\overleftrightarrow{HG}$  is  
contained by plane DCE

29. \_\_\_\_\_  $\overline{CD}$  is  
contained by plane DCE

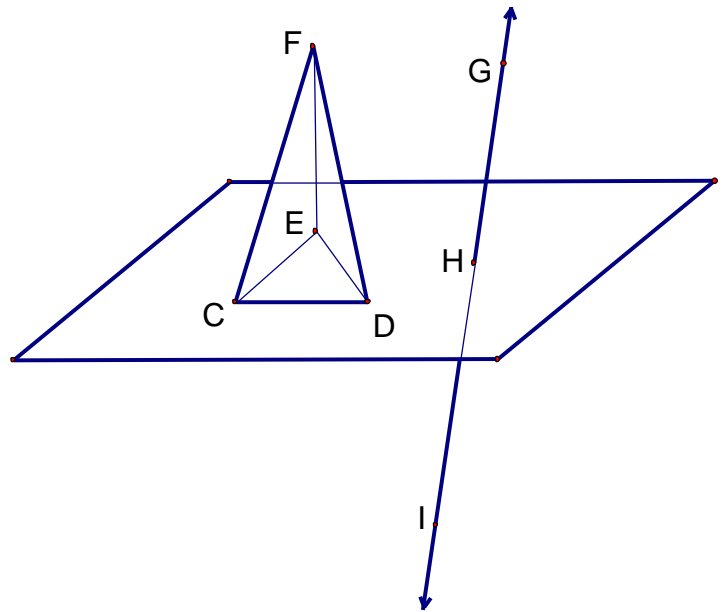
30. \_\_\_\_\_ Points C, D,  
& E are collinear

31. \_\_\_\_\_ Points F & H  
are collinear

32. \_\_\_\_\_ Give another  
name for  $\overleftrightarrow{GH}$

33. \_\_\_\_\_ Give another name for plane CDE

34. \_\_\_\_\_ Where do plane DCE and  $\overleftrightarrow{GI}$  intersect?



35. An angle is 12 degrees more than its complement. Find the measure of the angles.

36. An angle is 15 degrees less than twice its complement. Find the angles.

37. Find two supplementary angles if one is four times the other.

Draw the following.

38. Two intersecting planes

39. Two planes that do not intersect

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40. Three non-collinear points

41. Four non-coplanar points

42. Two intersecting lines that are coplanar

43. Three coplanar lines that do not intersect

Use the figure to the right for the next set of questions.

$\overleftrightarrow{AB} \perp \overleftrightarrow{BE}$ ,  $\overleftrightarrow{BF} \perp \overleftrightarrow{BD}$   
 $\overleftrightarrow{BC}$  bisects  $\angle DBG$

44.  $m\angle FBE = 4x - 4$   
 $m\angle EBD = 9x + 3$

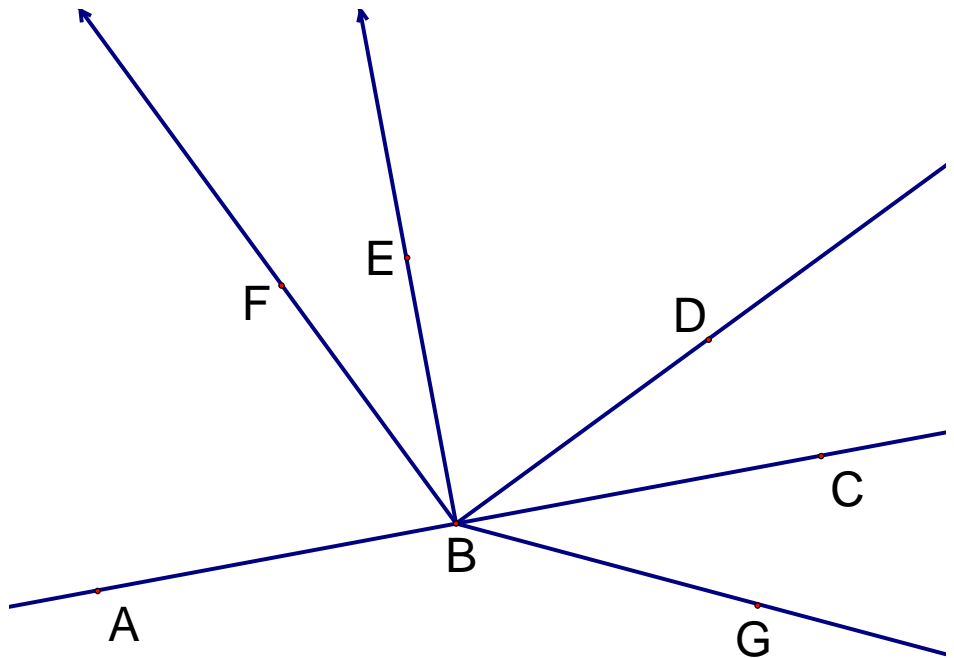
Find the angles.

45.  $m\angle DBC = 4x + 3$   
 $m\angle CBG = 6x - 17$   
Find  $m\angle DBG$ .

46.  $m\angle DBC = 4x - 1$   
 $m\angle DBG = 10x - 20$   
Find  $m\angle DBC$ .

47.  $m\angle ABD = 10x$   
 $m\angle DBC = 2x$   
Find  $m\angle ABD$ .

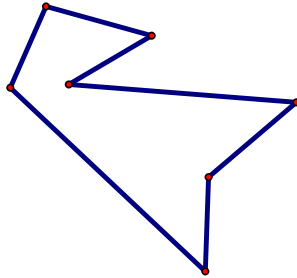
48.  $m\angle FBE = 25^\circ$   
Find:  $m\angle DBE = \underline{\hspace{2cm}}$      $m\angle FBA = \underline{\hspace{2cm}}$   
 $m\angle DBC = \underline{\hspace{2cm}}$      $m\angle CBG = \underline{\hspace{2cm}}$



A. Determine if the following figures are a polygon or not. B. If they are, then are they convex or concave? C. Are they equilateral, equiangular, regular, or neither?

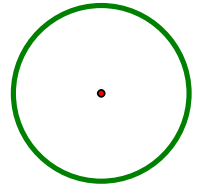
49.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_



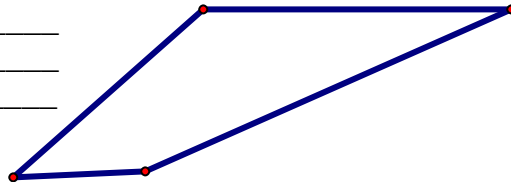
50.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_



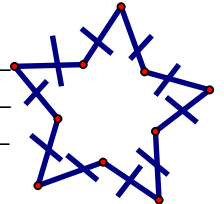
51.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_



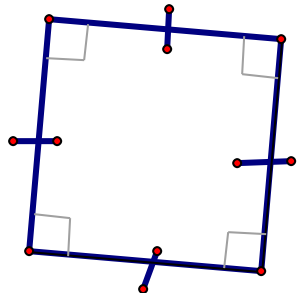
52.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_



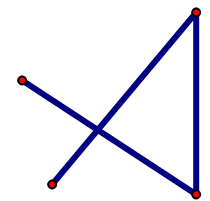
53.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_



54.

- a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_

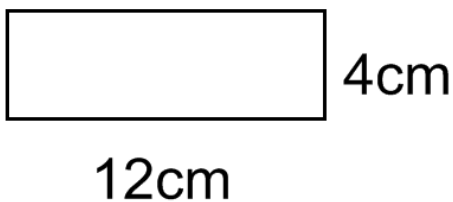


55. What type of polygon are the figures from questions...

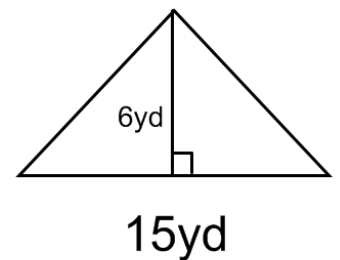
49. \_\_\_\_\_, 51. \_\_\_\_\_, 52. \_\_\_\_\_?

Find the area and/or perimeter of the following shapes.

56.  $A = \underline{\hspace{1cm}}$   $P = \underline{\hspace{1cm}}$   
(Rectangle)



57.  $A = \underline{\hspace{1cm}}$



58.  $A = \underline{\hspace{1cm}}$   $C = \underline{\hspace{1cm}}$

59. The area of a square is  $36\text{cm}^2$ .  
What is  $P = \underline{\hspace{1cm}}$ ?

